DEFINITIONS

- Door 1 – Front inward glider door
- Door 2 – Middle sliding plug door
- Door 3 – Rear platform door panel
- Glass Panel – Rear platform glass panel (manually operated)
- DMUX – Display Multiplex Unit (Display screen on the driver's dashboard)
- Door Brake – Partial application of service brakes activated automatically if doors are not closed or access ramp is not stowed when vehicle speed is < 5 kph.

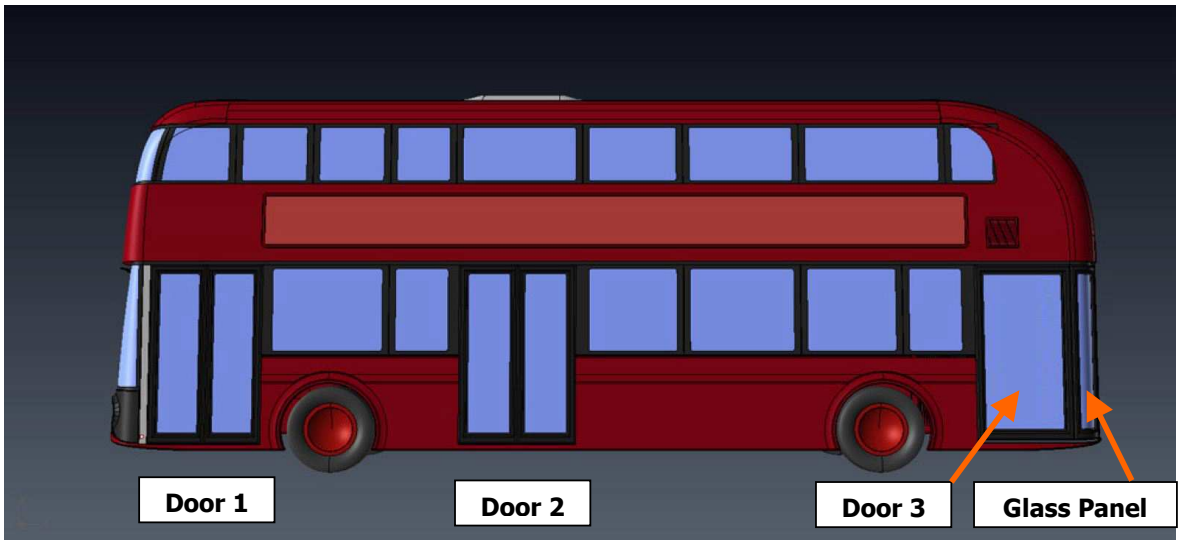

Fig 1

DOOR CONTROL PUSH BUTTON LOCATIONS & FUNCTION

The following push buttons are located on the cab side console:

- Doors Open – opens doors 1, 2 & 3
- Door 1 Close – closes door 1 only
- Door 2 Close – closes door 2 only
- Door 3 Close – closes door 3 only
- Mode Select – selects Drivers Control Mode or Crew Control Mode

The following push buttons are located in the rear platform area:

- Driver Alert – means for crew to attract drivers attention
- Drive Enable – releases door brake in crew control mode
- Lock Release – releases the glass panel pneumatic lock

OPERATION MODES

There will be two operating modes for the vehicle doors and glass panels namely Driver Control mode and Crew Control mode.

- Under Driver Control Mode Doors 1, 2 & 3 will be under the control of the driver. The Glass Panel will be pneumatically locked in the closed position.
- Under Crew Control Mode Doors 1 & 2 will remain under the control of the Driver, however the Rear Platform Area will be under control of the Crew Member. Door 3 and the glass panel will be pneumatically locked in their stowed positions creating an open platform.

CREW CONTROL MODE SELECTION PROCESS

The following sequence is followed to set the rear platform to Crew Control mode:

1. Firstly the Driver must open the doors by using the *'Doors Open'* button.
2. The driver then depresses the *'Door Mode Select'* button for 2 seconds.
3. The push buttons in the Rear Platform Area for the Crew Member now become functional. This is indicated to the driver by his DMUX display flashing.
4. The Crew Member presses the 'lock release' button, which releases the glass panel's pneumatic lock.
5. The Crew Member now manually moves the glass panel to the fully open position.
6. The Crew Member must now depress the *'Lock Release'* button, which re-engages the pneumatic lock.

The vehicle on board system verifies that Door 3 and the glass panel are stowed correctly for 'Crew Control Mode' i.e. fully open. Door 3 and the Glass Panel are locked pneumatically clear of the platform and all vehicle *'open/close'* buttons for Door 3 are disabled.These remain interlocked until the rear platform area is returned to Driver Control Mode. Should door 3 move from its locked position the door brake is applied.

The Rear Platform Area is now under the control of the Crew Member.

- A tell-tale on the DMUX display will be illuminated to warn the driver that the vehicle is in the Crew Control mode.
- The open or closed position status of all Doors and the Glass Panel are displayed on the DMUX at all times
- A Crew Member is positioned on the rear platform at all times during Crew Control Mode.
- The Driver has a clear view of the Rear Platform Area via a camera on his overhead display.

CREW MEMBER'S COMMUNICATION DEVICE

A Driver Communication Device is situated at the Rear Platform Area. It consists of *a 'Driver Alert'* button which is only active when the Rear Platform Area is Crew Control Mode. When operated it will provide a momentary audible warning lasting 1 second and illuminate a tell tale on the DMUX lasting 5 seconds. The audible and visual warnings will be repeated with each operation of the push button.

DRIVER CONTROL MODE SELECTION PROCESS

To return the Rear Platform Area to Driver Control Mode the following process is followed:

1. The Driver depresses the *'Door Mode Select'* button in the cab area and holds for 2 seconds.
2. The Crew Member presses the *'Lock Release'* button to release the pneumatic lock on the Glass Panel.
3. The Crew Member then manually moves the Glass Panel to the fully closed position.
4. The Crew Member must now depress the *'Lock Release'* button, which re-engages the pneumatic lock.

N.B. If the Glass Panel is not fully open or closed a warning buzzer will sound in the Driver's Cab Area and the Door Brake is applied.

5. The Crew Member indicates to the Driver that the Rear Platform Area is now ready to be returned to their control. [+]
6. The pneumatic lock on Door 3 is removed and all the vehicle control buttons for door 3 are activated. The Crew Member's control buttons at the rear platform area are disabled.
7. The Rear Platform Area is now under the control of the Driver.
    - The crew control mode tell tale on the DMUX display is extinguished

[+]Driver control mode can only be selected if the glass panel is in the fully closed position and door 3 is in the fully open position.

THE VEHICLE FUNCTIONALITY IN CREW CONTROL MODE

Under Crew Control Mode the Driver's '*Doors Open*' push button will open Doors 1 & 2 simultaneously. The Driver can close Doors 1 & 2 independently using the separate *'Door Close'* push buttons. The '*Door Close*' push button for door 3 will be disabled when in Crew Control Mode.

The Door brake will be activated if Doors 1 or 2 are not closed or the Crew Member has not pressed the *'Drive Enable'* button at the Rear Platform. To reset the Door Brake the handbrake must be applied, Doors 1 & 2 must be closed and the Crew's '*Drive Enable'* button must be depressed. The *'Drive Enable'* button must be held in the depressed position until the vehicle starts to move i.e. vehicle speed > 1 Kph.

THE VEHICLE FUNCTIONALITY IN DRIVER CONTROL MODE

Under Driver Control Mode, Doors 1, 2 & 3 can be opened simultaneously by pressing the *'Doors Open'* push button located on the cab side console. The doors can be closed independently using 3 separate *'Door Close'* push buttons.

The Door Brake will be activated if doors 1, 2 or 3 are not closed. To reset the door brake the handbrake must be applied and all doors must be closed. A Door Brake status indication will be provided on the DMUX display.